

DERWENT- 1992-058330

ACC-NO:

DERWENT- 199208

WEEK:

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TITLE: Shrink-fit articles of crosslinked polymer, e.g. tubes, sleeves, etc. - coated inside with e.g. silane-crosslinked mixt. of polyamide olefin!-(meth)acrylic! acid copolymer and eva, epdm, etc.

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PATENT-ASSIGNEE: MATZAT, H WINTER, R KABELMETAL ELECTRO GMBH [GUTE]

PRIORITY-DATA: 1990DE-4026109 (August 17, 1990)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 471238 A	February 19, 1992	N/A	000	N/A N/A C09J 007/02N/A C09J 00
DE 4026109 A	February 20, 1992	N/A	000	7/02
DE 59101046 G	March 31, 1994	N/A	000	
EP 471238 A3	September 2, 1992	N/A	000	
EP 471238 B1	February 23, 1994	G	005	

**DESIGNATED-
STATES:** BE CH DE ES FR GB IT LI NL BE CH DE DK ES FR GB IT
LI NL

**CITED-
DOCUMENTS:** NoSR.Pub; 3.Jnl.Ref ; GB 2018527 ; JP 55090575 ; JP
58038771 ; JP 61002781 ; 03Jnl.Ref

APPLICATION-DATA:

PUB-NO	APPL-_DESCRIPTOR	APPL-NO	APPL-DATE
EP 471238A	N/A	1991EP-0112838	July 31, 1991
DE 4026109A	N/A	1990DE-4026109	August 17, 1990
DE 59101046G	N/A	1991DE-0501046	July 31, 1991
DE 59101046G	N/A	1991EP-0112838	July 31, 1991
DE 59101046G	Based on	EP 471238	N/A
EP 471238A3	N/A	1991EP-0112838	July 31, 1991

EP 471238B1 N/A

1991EP-0112838 July 31, 1991

INT-CL (IPC) : B29C061/06, C09J005/06, C09J007/02, C09J009/00

ABSTRACTED-PUB-NO: EP 471238A

BASIC-ABSTRACT:

Shrink prods. (I) e.g. tubes, caps, sleeves or strips, consist of crosslinked material (II) based on olefin (co)polymers, elastomers or thermoplastic rubbers, the surface towards the object to be covered being coated with a hot-melt adhesive (III) which softens at the shrink temp. (T); (III) consists of 30-80wt.% component (A), 15-50wt.% (B) and 5-25wt.% (C), where (A) is a hot-melt adhesive based on polyamide, EVA copolymer, polyisobutylene, polyester or SB copolymer, (B) is ethylene/acrylic acid co- or ter-polymer, co- or ter-polymer of ethylene, methacrylic acid and maleic acid or anhydride, or alpha-olefin/(meth)acrylic acid terpolymer, (C) is EVA copolymer, ethylene/acrylate co- or ter-polymer, EPM or EPDM, SB copolymer, LLDPE and/or VLDPE, and component (B) and/or (C) is/are crosslinked by means of organo-silane cpds. (IV).

Also claimed is a process for the prodn. of (I), (a) by mixing (A), (B) and (C), adding the crosslinking reagents (e.g. silane, peroxide, catalyst etc.), applying the mixt. immediately to the substrate surface, and crosslinking the adhesive by the action of diffusing moisture; alternatively (b), (B) and/or (C) is/are first grafted with silane, then (A), (B) and (C) are mixed, the catalyst is added and the mixt. is crosslinked with moisture as above.

USE/ADVANTAGE - Provides heat-shrinkable articles, e.g. cable sleeving etc., with a surface coating of hot-melt adhesive (III); w.r.t. other adhesives, (III) has markedly higher thermal stability, and less tendency to slip, at elevated temp.

ABSTRACTED-PUB-NO: EP 471238B

EQUIVALENT-ABSTRACTS:

Shrink article, such as a tube, sleeve or tape, is made from a crosslinked material based on olefin polymers or olefin copolymers, elastomers or thermoplastic rubbers, whose surface facing the article to be wrapped is coated with a hot-melt adhesive which softens at the shrink temperature, characterised in that the hot-melt adhesive comprises 30-80% by weight of a component A, 15-50% by weight of a component B and from 5 to 25% by weight of a component C. Component A comprises a hot-melt adhesive based on polyamide, ethylene-vinyl acetate, polyisobutylene, polyester or styrene-butadiene copolymer, component B comprises ethylene-acrylic acid copolymer or terpolymer,

a copolymer or terpolymer of ethylene and of methacrylic acid, maleic acid or maleic anhydride, alpha-olefin-acrylic acid terpolymer or a alpha-olefin-methacrylic acid terpolymer, component C comprises ethylene-vinyl-acetate copolymer, ethylene acrylate copolymer or terpolymers, EPM or EPDM, styrene-butadiene copolymer, LLDPE and/or VLDPE. Components B and/or C are crosslinked via organosilane compounds.

CHOSEN- Dwg.0/0ed Dwg.0/0

DRAWING:

TITLE- SHRINK FIT ARTICLE CROSSLINK POLYMER TUBE SLEEVE COATING
TERMS: SILANE CROSSLINK MIXTURE POLYAMIDE POLYOLEFIN METHO
 POLYACRYLIC ACID COPOLYMER EVA EPDM

DERWENT-CLASS: A18 A28 A35 E11 G03

CPI- A04-G01E; A08-C01; A10-E22A; A11-C02; A12-A05; G02-A05A;
CODES: G03-B02B; G03-B02D; G03-B02D1; G03-B02D2; G03-B02D3; G03-B02E; G03-B02E3; G03-B04;

CHEMICAL- Chemical Indexing M3 *01* Fragmentation Code B414 B711 B712
CODES: B713 B720 B741 B742 B743 B744 B760 B831 M210 M211 M212 M213
 M214 M215 M216 M220 M221 M222 M223 M224 M225 M226 M231 M232
 M233 M250 M272 M281 M282 M283 M320 M411 M510 M520 M530 M540
 M620 M782 M903 M904 Q130 Q331 R042 Markush Compounds
 199208-A6801-M Chemical Indexing M3 *02* Fragmentation Code
 K0 K9 K920 K930 M210 M211 M212 M213 M214 M215 M216 M220
 M221 M222 M223 M224 M225 M226 M231 M232 M233 M272 M281 M282
 M320 M416 M620 M782 M903 M904 Q130 Q331 R042 Markush
 Compounds 199208-A6802-M

UNLINKED-DERWENT-REGISTRY-NUMBERS: ; 1740U ; 5085U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key 0009 0010 0037 0038 0202 0205 0218 0224 0231 0234 0235
Serials: 0239 0241 0242 0250 0251 0262 0306 0404 0405 0411 0412
 0418 0419 0495 0496 0789 1058 1095 1180 1201 1283 1288
 1417 1418 1994 2001 2020 2198 2210 2217 2291 2293 2300
 2302 2321 2325 2330 2368 2371 2437 2450 2464 2493 2532
 2534 2542 2600 2601 2654 2658 2667 2669 2684 2718 2726
 2727 2728 2782 2830 2833 3151 3153 3154 3155 3159 3252
 3319

Multipunch 014 032 034 04- 040 041 046 047 05- 050 052 055 056 066
Codes: 067 074 075 076 077 081 104 105 106 116 117 122 134 141
 143 155 157 174 229 231 235 24- 266 267 27& 28& 299 305
 307 308 310 331 341 359 36& 364 365 368 369 381 387 392
 393 41- 415 431 44& 443 444 450 456 459 47& 473 477 479
 48- 487 489 504 54& 541 547 575 58& 582 596 597 599 600
 604 608 609 653 674 675 688 720 721 723 001 003 003 020

020 021 022 023 023 023 023 024 024 025 025 026 030 040
040 041 041 041 041 049 049 078 105 109 118 120 128 128
141 141 199 200 202 219 221 221 229 229 230 230 232 232
233 236 237 243 245 246 249 253 253 254 260 260 265 265
266 266 268 271 272 272 272 278 283 283 315 315 315 315
315 325 331

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1992-026281